SOLUTIA
Solutions for a better life.

Solutia Inc.
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July 7, 2003
(Via certified or express mail)

Mr. Kevin Turner-Environmental Scientist, OSC
U. S. Environmental Protection Agency
c/o Crab Orchard National Wildlife Refuge
8588 Rt. 148
Marion, IL 62959

Mr. Thomas Martin, Esq.
Associate Regional Counsel
77 West Jackson Boulevard (C-14J)
Chicago, IL 60604-3590

Re: Sauget Sites Area I - May 31, 2000 Unilateral Administrative Order (UAO)
Sediment / Soils Removal Action
 # 26 - Monthly Report June 1 – June 30, 2003 Reporting period

Dear Mr. Turner and Mr. Martin,

Enclosed is the Monthly Report for the Sauget Sites Area I May 31, 2000 Unilateral Administrative Order ("UAO") Sediment Removal Action. This submittal is in fulfillment of the monthly reporting requirements of the UAO, Section V, and paragraph 3.4. Reporting. This report is for the June 1 – June 30, 2003 reporting period.

Sincerely,

Gary Vandiver
Project Coordinator
Solutia Inc.

cc: Nabil Fayoumi – USEPA Region 5
Sandra Bron - IEPA
Mike Coffey - USFW
Linda Tape – Husch & Eppenberger
Mayor Frank Bergman - Cahokia
Village of Sauget – c/o P. H. Weis & Associates (Attn: Brian Nelson)
Mayor P. Sauget - Sauget, IL
Richard Williams - Solutia

Sauget Sites Area I - Sauget, Illinois

May 31, 2000 UAO – Dead Creek Sediment Removal Action

Monthly Report

Date of Report: July 7, 2003
Period Covered: June 1, 2003 - June 30, 2003
Next Report Period: July 1, 2003 - July 31, 2003

Background

A Unilateral Administrative Order ("UAO") was issued to Solutia by the U. S. EPA on May 31, 2000, requiring construction of an on-site containment cell, removal of affected creek bed sediments and soils and flood plain soils from specific sections of Dead Creek, and placement of the affected sediments and soils in the newly constructed on-site cell. A Time Critical Removal Action Work Plan ("TCRAWP") was initially submitted to the Agencies on June 30, 2000 for review and approval. Agreements sufficient to proceed with issuance of a request for bids for the containment cell construction were reached in December 2000. Bids were received in late January and evaluated in February 2001.

Fieldwork began on the sediment de-watering phase of the project in November 2000. Installation of the required facilities (piping, pumps, basins, etc.) to de-water the sediments while the containment cell was being constructed was completed and started up in February 2001. Operation of these facilities will continue until all sediments are placed into the containment cell.

Subject to the inclusion of all comments and agreed upon revisions; approval of the containment cell design by U. S. EPA was received on March 5, 2001. A contract for construction of the containment cell was awarded on March 8, 2001 to LMS Environmental Contracting, Inc. ("LMS"). Placement of fill for the Containment Cell berms began on April 23, 2001. A March 30, 2001 revised draft containment cell design was approved by the Agencies in a May 10, 2001 letter. Construction was completed on the Containment Cell on September 13, 2001. A draft Containment Cell Certification Report was submitted for the Agencies' review and approval upon construction completion. The Containment Cell was approved on September 24, 2001 by USEPA and IEPA for receipt of sediment. Placement of sediments into the cell began on September 26, 2001.

An Amendment to the UAO was received on October 29, 2001. The Amendment modified the project scope of the UAO – adding Creek Sector F sediments removal and placement into the Containment Cell. On August 20, 2001, Solutia requested a change in

the Post Removal Confirmation Sampling and analytical protocols. In a November 30, 2001 communication, the Agency responded with revised sampling and analytical protocols.

Agency Actions / Communications

- Revision 01 of the Draft Groundwater Monitoring Plan - submitted to the Agencies on August 3, 2001 – remained under review.
- The Operations and Maintenance Report - submitted for the Agencies' review and approval on August 28, 2001- remained under review. Portions of the Plan applicable to the placement of sediments have already been approved.

Work Performed during the reporting period

- Performed inspections of the site.
- Maintained operation of the 50-gpm stormwater treatment system.
- Inspected and maintained the 6oz. geotextile/6 mil scrim reinforced poly cover over the containment cell.
- Maintained stormwater and leachate collection controls around the containment cell.
- Monitored support area facilities.
- Collected groundwater samples during the June 2003 quarterly sampling of the groundwater monitoring wells around the containment cell. Samples will be analyzed for parameters in the Draft Groundwater Monitoring Plan Revision 01.
- The design for the liner to be installed in Creek Sector B has been completed.
- The cell cover design for the TSCA Cell has been completed.
- The section of Dead Creek due South of Edgar Road was staked and photo documented to locate high spots.

Data Submittal

Validated data from the March 2002 TSCA Cell Quarterly Groundwater Monitoring sampling event are submitted with this report.

Work scheduled for next reporting period

- Conduct routine inspection of the containment cell.
- Continue operation of the 50-gpm stormwater treatment system.
- Perform necessary operation and maintenance on the containment cell and temporary treatment system.
- Analyze groundwater samples for parameters in the Draft Groundwater Monitoring Plan Revision 01.
- Remove high spots from the section of Dead Creek due South of Edgar Road.
- Hand over operation and maintenance of the pumping system to the Village of Cahokia.

PROJECT COMPLETION

Mobilization	100 %
Berm Construction	100 %
Liner Installation	100 %
Sediment Removal Preparation	100 %
Sediment Excavation (Site M)	100 %
Sediment Excavation (Original Scope of Work)	100 %
Sediment Excavation (Sector F)	100 %
Temporary Cover installation	100 %
Demobilization - Phase I	100 %
Final Cover Installation	0 %
Demobilization - Phase II	0 %
Final Report Preparation	0 %

Problems and Solutions

In discussion with officials from the Village of Cahokia, standing water in separate segments of Dead Creek emerged as a source of concern, given the current public health warnings about the West Nile Virus. The water is stagnant because the creek bottom is significantly lower than culvert inverts.

Because of this concern, Solutia agreed to install temporary pumps to pump the water downstream. This work was completed during the September 1, 2002 – September 30, 2002 reporting period. The permanent pumping system was installed during the January 1, 2002 – January 31, 2002 reporting period. The system consists of six pumps permanently mounted in the creek. The pumps are fitted with level control switches and will pump water downstream through the existing culverts when the water level is below the culvert inverts.

During the March reporting period, level adjustments were performed at each of the six (6) pump locations and the system went on-line. Gravel sumps were scheduled to be installed at each pumping location during the April reporting period. However, due to inclement weather this work was rescheduled. Gravel sumps were placed at each pump location during the May reporting period.

Standing water was noted in the section of Dead Creek due South of Edgar Road. During the June reporting period, this section was staked and inspected to locate high spots. The removal of the high spots from this section of Dead Creek is scheduled for the July

reporting period. Handover of the system to the Village of Cahokia is also scheduled for the next reporting period.

Submittal Schedule Status

See attached UAO schedule

Issues under review

None

Comments

None

May 31 Sauget Area I UAO Sediment Removal Action

SCHEDULE

Deliverable	Description	Due Date
Issuance Date	Date UAO signed by Muno	**31-May-00**
Effective Date	10 business day after issuance	**14-Jun-00**
Notice of Intent to Comply	3 business days after effective date	**19-Jun-00**
Designation of Contractor and Project Coordinator	5 business days after effective date	**21-Jun-00**
Access	14 calendar days after effective date	**28-Jun-00**
Time Critical Removal Action Work Plan Submittal	15 business days after effective date	**7-Jul-00**
EPA Approval of TCRA W/P		**May 10, 2001**
Monthly Reports	Begin 30 calendar days after approval of TCRA W/P until completion	**June 10, 2001**
Final Report	60 Calendar days after completion of sediments and soils removal	
Mitigation Plan	60 Calendar days after completion of sediments and soils removal	**May 22, 2002**

BCC: (via e-mail only)

S. Smith - 1S
B. Gilhousen - 3S
B. Yare - 1S
L. Tape – Husch & Eppenberger, LLC
J. Lebold – 1740
M. Peal
S. Wendler - 3S
D. Ridenhower – 1740
A. Faust - 3N
R. Williams – Williams & Associates

O'BRIEN & GERE ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 8260 Volatile Organic Compound Data

	Sample ID	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-03S DUP	TCMW-04
	Sample Date	03/26/03	03/26/03	03/27/03	03/26/03	03/26/03	03/26/03	03/27/03
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	0.75 J	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	0.69 J	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane		9.8 UJ	9.8 UJ	9.8 UJ	9.8 UJ	9.8 UJ	9.8 UJ	9.8 UJ
Carbon disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene		5 U	5 U	5 U	1.2 J	5 U	5 U	5 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane		10 U	10 U	10 U	10	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene		2.7 U	0.29 J	0.37 J	2.7 U	0.3 J	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total VOCs		ND	0.29	0.37	12.54	0.3	ND	ND

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 8260 Volatile Organic Compound Data

	Sample ID	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S
	Sample Date	03/25/03	03/25/03	03/25/03	03/25/03
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
1,1,1-Trichloroethane		5 U	5 U	5 UJ	5 U
1,1,2,2-Tetrachloroethane		5 UJ	5 UJ	5 UJ	5 UJ
1,1,2-Trichloroethane		5 U	5 U	5 UJ	5 U
1,1-Dichloroethane		5 U	5 U	5 UJ	5 U
1,1-Dichloroethene		5 U	5 U	5 UJ	5 U
1,2-Dichloroethane		5 U	5 U	5 UJ	5 U
1,2-Dichloropropane		5 U	5 U	5 UJ	5 U
2-Butanone (MEK)		25 U	25 U	25 UJ	25 U
2-Hexanone		25 U	25 U	25 UJ	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 UJ	25 U
Acetone		50 U	50 U	50 UJ	50 U
Benzene		1.2 U	1.2 U	1.2 UJ	1.2 U
Bromodichloromethane		5 U	5 U	5 UJ	5 U
Bromoform		5 U	5 U	5 UJ	5 U
Bromomethane		9.8 UJ	9.8 UJ	9.8 UJ	9.8 UJ
Carbon disulfide		5 U	5 U	5 UJ	5 U
Carbon tetrachloride		5 U	5 U	5 UJ	5 U
Chlorobenzene		7	5 U	5 UJ	5 U
Chloroethane		10 U	10 U	10 UJ	10 U
Chloroform		5 U	5 U	5 UJ	5 U
Chloromethane		10 U	10 U	10 UJ	10 U
Cis/Trans-1,2-Dichloroethene		0.88 J	5 U	5 UJ	5 U
Dibromochloromethane		5 U	5 U	5 UJ	5 U
Ethylbenzene		5 U	5 U	5 UJ	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 UJ	4.7 U
Styrene		5 U	5 U	5 UJ	5 U
Tetrachloroethene		5 U	5 U	5 UJ	5 U
Toluene		5 U	5 U	5 UJ	5 U
Trichloroethene		2.7 U	2.7 U	2.7 UJ	2.7 U
Vinyl chloride		10 U	10 U	10 UJ	10 U
Xylenes, Total		5 U	5 U	5 UJ	5 U
cis-1,3-Dichloropropene		1 U	1 U	1 UJ	1 U
trans-1,3-Dichloropropene		5 U	5 U	5 UJ	5 U
Total VOCs		7.88	ND	ND	ND

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 8270 Semivolatile Organic Compound Data

	Sample ID	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-03S DUP	TCMW-04
	Sample Date	03/26/03	03/26/03	03/27/03	03/26/03	03/26/03	03/26/03	03/27/03
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Methyl-4,6-dinitrophenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 8270 Semivolatile Organic Compound Data

	Sample ID	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-03S DUP	TCMW-04
	Sample Date	03/26/03	03/26/03	03/27/03	03/26/03	03/26/03	03/26/03	03/27/03
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Benzyl butyl phthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Total Semivolatiles		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

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Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 8270 Semivolatile Organic Compound Data

	Sample ID	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S
	Sample Date	03/25/03	03/25/03	03/25/03	03/25/03
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
1,2,4-Trichlorobenzene		10 U	10 UJ	10 U	10 U
1,2-Dichlorobenzene		2.4 J	10 UJ	10 U	10 U
1,3-Dichlorobenzene		10 U	10 UJ	10 U	10 U
1,4-Dichlorobenzene		10 U	10 UJ	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 UJ	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 UJ	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 UJ	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 UJ	10 U	10 U
2,4-Dinitrophenol		14 U	14 UJ	14 U	14 U
2,4-Dinitrotoluene		10 U	10 UJ	10 U	10 U
2,6-Dinitrotoluene		10 U	10 UJ	10 U	10 U
2-Chloronaphthalene		10 U	10 UJ	10 U	10 U
2-Chlorophenol		10 U	10 UJ	10 U	10 U
2-Methylnaphthalene		10 U	10 UJ	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 UJ	10 U	10 U
2-Nitroaniline		50 U	50 UJ	50 U	50 U
2-Nitrophenol		10 U	10 UJ	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 UJ	10 U	10 U
3-Nitroaniline		50 U	50 UJ	50 U	50 U
2-Methyl-4,6-dinitrophenol		13 U	13 UJ	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 UJ	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 UJ	10 U	10 U
4-Chloroaniline		20 U	20 UJ	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 UJ	10 U	10 U
4-Nitroaniline		50 U	50 UJ	50 U	50 U
4-Nitrophenol		50 U	50 UJ	50 U	50 U
Acenaphthene		10 U	10 UJ	10 U	10 U
Acenaphthylene		10 U	10 UJ	10 U	10 U
Anthracene		10 U	10 UJ	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

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Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 8270 Semivolatile Organic Compound Data

	Sample ID	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S
	Sample Date	03/25/03	03/25/03	03/25/03	03/25/03
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
Benzyl butyl phthalate		10 U	10 U	10 U	10 U
Carbazole		3.4 U	3.4 UJ	3.4 U	3.4 U
Chrysene		10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 UJ	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 UJ	10 U	10 U
Diethylphthalate		10 U	10 UJ	10 U	10 U
Dimethylphthalate		10 U	10 UJ	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U
Fluorene		1 U	1 UJ	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 UJ	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 UJ	10 U	10 U
Hexachloroethane		1.9 U	1.9 UJ	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U
Isophorone		10 U	10 UJ	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 UJ	10 U	10 U
N-Nitrosodiphenylamine		5 U	5 UJ	5 U	5 U
Naphthalene		10 U	10 UJ	10 U	10 U
Nitrobenzene		3.5 U	3.5 UJ	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5 U	5 U
Phenanthrene		10 U	10 UJ	10 U	10 U
Phenol		10 U	10 UJ	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 UJ	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 UJ	10 U	10 U
bis(2-Ethylhexyl)phthalate		2.4 U	2.4 U	2.4 U	2.4 U
Total Semivolatiles		2.4	ND	ND	ND

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

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Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 680 Polychlorinated Biphenyl Data

Sample ID	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-03S DUP	TCMW-04
Sample Date	03/26/03	03/26/03	03/27/03	03/26/03	03/26/03	03/26/03	03/27/03
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Monochlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dichlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorobiphenyl	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Tetrachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pentachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobiphenyl	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Heptachlorobiphenyl	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Octachlorobiphenyl	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Nonachlorobiphenyl	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Decachlorobiphenyl	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total PCBs	ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

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Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 680 Polychlorinated Biphenyl Data

	Sample ID	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S
	Sample Date	03/25/03	03/25/03	03/25/03	03/25/03
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U
Pentachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U
Nonachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U
Total PCBs		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

O'BRIEN & GERE
ENGINEERS, INC.

Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 6010/7470 Inorganic Data

	Sample ID	TCMW-01M	TCMW-01S	TCMW-02	TCMW-03M	TCMW-03S	TCMW-03S DUP	TCMW-04
	Sample Date	03/26/03	03/26/03	03/27/03	03/26/03	03/26/03	03/26/03	03/27/03
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium		0.21	0.29	0.16	0.38	0.099	0.097	0.12
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium		170	170	120	190	160	160	130
Chromium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt		0.01 U	0.004 J	0.0027 J	0.01 U	0.0032 J	0.0035 J	0.004 J
Copper		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Iron		21	0.05 U	0.05 U	20	2.8	2.8	0.05 U
Lead		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium		36	27	23	41	34	34	28
Manganese		0.97	0.38	0.45	1.2	1.5	1.5	0.37
Mercury		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel		0.04 U	0.0088 J	0.0081 J	0.04 U	0.0057 J	0.0063 J	0.0089 J
Potassium		6.5	8.3	5.7	12	6.5	6.3	6.3
Selenium		0.01 U	0.01 UJ+	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		10	48	25	120	30	29	6.6
Thallium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc		0.043	0.044	0.046	0.033	0.043	0.041	0.043

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.

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Appendix A
Solutia
Sauget Area 1
Ground Water - March 2003
Method 6010/7470 Inorganic Data

	Sample ID	TCMW-05M	TCMW-05S	TCMW-06M	TCMW-06S
	Sample Date	03/25/03	03/25/03	03/25/03	03/25/03
	Units	mg/l	mg/l	mg/l	mg/l
Compound					
Aluminum		0.2 U	0.2 U	0.2 U	0.2 U
Antimony		0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.0059 J	0.01 U	0.006 J	0.01 U
Barium		0.21	0.2	0.33	0.21
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U
Calcium		170	130	120	160
Chromium		0.033	0.01 U	0.01 U	0.01 U
Cobalt		0.01 U	0.01 U	0.01 U	0.0017 J
Copper		0.0056 J	0.02 U	0.02 U	0.02 U
Iron		28	0.05 U	9.2	0.05 U
Lead		0.0033 J	0.005 U	0.005 U	0.005 U
Magnesium		37	30	24	40
Manganese		1.2	0.033	1	0.24
Mercury		0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel		0.0084 J	0.0053 J	0.04 U	0.014 J
Potassium		6.5	5.7	4.5	7.1
Selenium		0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U
Sodium		15	5.7	14	18
Thallium		0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.01 U	0.01 U	0.01 U	0.01 U
Zinc		0.039	0.042	0.044	0.048

NOTES: U - not detected, J - estimated value, J- - estimated value (biased low), J+ - estimated value (biased high), N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, DUP - field duplicate.